**PATENT** 

Docket No.: 19603/10215 (CRF D-1156D)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Michael E. O'Donnell Examiner:

Serial No.

08/828,323

R. Hutson

Cnfrm. No.:

4760

Art Unit:

Filed

March 28, 1997

For

DNA POLYMERASE III HOLOENZYME

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT **UNDER 37 CFR §§ 1.97-1.98**

United States Patent and Trademark Office P.O. Box 2327 Arlington, VA 22202 Box:

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.97(b)(4), no fee is required. Should it be determined that a fee is required, however, the Commissioner is hereby authorized to charge any fee to Deposit Account No. 14-1138.

Respectfully submitted,

NIXON PEABODY LLP

Clinton Square, P.O. Box 31051

Rochester, New York 14603

Telephone: (585) 263-1672

Facsimile: (585) 263-1600

Registration No. 44,597

. 🖼 .										-	
			•						s	heet 1 of 3	
U.S. DEPARTMEN	IT OF C	OMMERCE	ATTY. DOC	CKET NO.				SERIAL NO.			
PATENT AND TRA			19603/1021	5 (CRF D-1156I	D)			08/828,323			
INFORMATIO STATEMENT			APPLICAN	APPLICANT							
			Michael E.	O'Donnell							
(use several she	eets if no	ecessary)	FILING DA	TE		<del></del>		GROUP ART UNIT			
(PTO-1449)			March 28, 1	1997				1652			
			<del></del>	U.S. PATE	NT DOCUMEN	NTS	<u>,,. I</u>				
EXAMINER		DOCUMENT	.							FILING	
INITIAL		NUMBER	DATE		NAME		CLASS		SUBCLASS	DATE IF APPRO- PRIATE	
		<b></b>									
					<u> </u>						
							<del></del> -				
		<del>                                     </del>									
		<u></u>			<u> </u>						
				FOREIGN PAT	FENT DOCUM	1ENTS					
	DOCUI NUM		•		Co	COUNTRY		CLASS SUBCLASS		TRANS- LATION IF APPRO- PRIATE	
		ОТНЕ	R DOCUME	NTS (including	Author, Title,	Date, Pertinent Page	es, Etc.)				
	1 Maki et al., "DNA Polymerase III Holoenzyme of Esherichia coli," J. Biol. Chem. 263:6555-6560 (1988)										
	2	O'Donnell, "A	ccessory Prote	eins Rind a Prim	ed Template and	d Mediate Rapid Cycli	ing of D	NA Pol	merase III Holoe	nzvme	
				siol. Chem. 262:10				IVA 1 V.,	ylliciase III II.o.o.	HZyme	
	3				·		NA Synti	hesis by	DNA Polymerase	e III	
	Onrust et al., "Analysis of the ATPase Subassembly Which Initiates Processive DNA Synthesis by DNA Polymerase III  Holoenzyme," J. Biol. Chem. 266:21681-21686 (1991)								- 1-		
	4					Biol. Chem. 268:11766	 6-11772	(1993)			
					,		-				
	5 Xiao et al., "DNA Polymerase III Accessory Proteins," J. Biol. Chem. 268:11773-11778 (1993)										
EXAMINER						DATE CONSIDERI	.ED			:	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

Sheet 2 of 3												
U.S. DEPARTMENT OF COMMERCE				ATTY. DOCKET NO.					SERIAL NO.			
PATENT AND TRADEMARK OFFICE					5 CRF D-1156D)			08/82	08/828,323			
INFORMATION DISCLOSURE				APPLICAN				00/02				
STATEMENT BY APPLICANT												
(use several sheets if necessary)				Michael E.		<del></del>		GROV				
(PTO-1449)	)			FILING DA					GROUP ART UNIT			
				March 28,	1997			1652	1652			
U.S. PATENT DOCUMENTS												
		DOCUMENT NUMBER	l l		N	AME (	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE			
						_,						
					FOREIGN PAT	ENT DOCUM	MENTS					
DOCUI NUM				DATE	C	DUNTRY	CLASS SUBCLASS		TRANS- LATION IF APPRO- PRIATE			
			отне	R DOCUME	NTS (including A	Author, Title,	Date, Pertinent Pages,	Etc.)				
		6	Xiao et al., "DNA Polymerase III Accessory Proteins," J. Biol. Chem. 268:11779-11784 (1993)									
						··· · · · ·	<del></del> _		·			
		7	Flower et al., "	The Adjacent	dnaZ and dnaX C	Genes of Esche	richia coli are Contained	l Within On	e Continuous Open	Reading		
	Flower et al., "The Adjacent <i>dnaZ</i> and <i>dnaX</i> Genes of <i>Escherichia coli</i> are Contained Within One Continuous Open Reading  Frame," Nucleic Acids Research 14:8091-8101 (1986)											
		8										
	Officer of all, Substitute and and and and officer of Escherichia con, Ocite 20.137-170 (1904)											
		9	Maki et al "Si	tructure and F	expression of the d	naQ Mutator a	nd the Rnase H Genes o	f <i>Escherich</i>	ia coli: Overlan of	the		
			Maki et al., "Structure and Expression of the <i>dnaQ</i> Mutator and the Rnase H Genes of <i>Escherichia coli</i> : Overlap of the Promoter Regions," Proc. Natl. Acad. Sci. USA 80:7137-7141 (1983)									
		10						riology 169	:5735-5744 (1987)			
	Tomasiewicz et al., "Sequence Analysis of the Escherichia coli dnaE Gene," J. Bacteriology 169:5735-5744 (1987)											
EXAMINER	₹		L				DATE CONSIDEREI	)				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

	•							<b>7</b>	SI	heet 3 of 3		
			OMMERCE	ATTY. DOCKET NO.				SERI	SERIAL NO.			
PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT				19603/1021	5 (CRF D-1156E	<b>)</b> )		08/82	08/828,323			
				APPLICANT								
				Michael E.	O'Donnell							
(use several sheets if necessary)				FILING DA	TE	_ <del>.</del>		GRO	GROUP ART UNIT			
(PTO-1449	))			March 28,	1997			1652	1652			
U.S. PATENT DOCUMENTS												
EXAMIN INITIA			DOCUMENT NUMBER	DATE		N.	AME (	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE		
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
									-			
					FOREIGN PAT	TENT DOCUM	MENTS					
			DOCUN NUMI			C	DUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE		
				,								
			отне	R DOCUME	NTS (including	Author, Title,	Date, Pertinent Pages,	Etc.)				
		11	Shepard et al, "Determination of the Precise Location and Orientation of the Escherichia coli dnaE Gene," J. Bacteriology									
			158:455-459 (	158:455-459 (1984)								
		12	Studwell et al., "Replication of the Lagging Strand by DNA Polymerase III Holoenzyme," Molecular Mechanisms in DNA									
			Replication and Recombination pp. 153-164 (1990)									
		13	Studwell-Vaughan et al., "DNA Polymerase III Accessory Proteins," J. Biol. Chem. 268:11785-11791 (1993)									
		14	Mike O'Donnell, "Accessory Protein Function in the DNA Polymerase III Holoenzyme from E. coli," <u>BioEssays</u> , 14:105-111 (1992)									
					<del></del>							
EXAMINE	ER					i	DATE CONSIDERED	)				
EXAMINE	R: Initia	al if citat	ion considered, v	vhether or not	citation is in con	formance with	MPEP 609; Draw line th	rough citat	ion if not in conform	ance and not		

considered. Include copy of this form with next communication to applicant.